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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX,

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ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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=> s chaperonin and ((folding (w) protein) naturation)  
MISSING OPERATOR PROTEIN) NATURATION  
The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> s chaperonin and ((folding (w) protein) or naturation)  
L1 120 CHAPERONIN AND ((FOLDING (W) PROTEIN) OR NATURATION)

=> s l1 and (anaerobic or urea or osmolyte or glutathione or oxidation or redox or  
reduction or reducing or oxidizing)  
L2 9 L1 AND (ANAEROBIC OR UREA OR OSMOLYTE OR GLUTATHIONE OR OXIDATIO  
N OR REDOX OR REDUCTION OR REDUCING OR OXIDIZING)

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=> dup rem l2

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L3 9 DUP REM L2 (0 DUPLICATES REMOVED)

=> s l3 and py<=2000

1 FILES SEARCHED...

4 FILES SEARCHED...

L4 6 L3 AND PY<=2000

=> d l4 1-6 py au ti so ab

L4 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

PY 1999

AU Hartl, F. Ulrich (1)

TI The folding of proteins in the cell.

SO Nordrhein-Westfaelische Akademie der Wissenschaften Natur- Ingenieur- und  
Wirtschaftswissenschaften Vortraege, (1999) No. 440, pp. 43-54. print.  
ISSN: 0944-8799.

L4 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

PY 2000

AU Gottesman, Max E. (1); Hendrickson, Wayne A.

TI Protein folding and unfolding by Escherichia coli chaperones and  
**chaperonins**.

SO Current Opinion in Microbiology, (**April, 2000**) Vol. 3, No. 2,  
pp. 197-202.  
ISSN: 1369-5274.

AB The folding of proteins from their initial unstructured state to their  
mature form has long been known to be promoted by other proteins known as  
chaperones and **chaperonins**. Recent biochemical and structural  
discoveries have provided dramatic insight into how these **folding  
proteins** work. This review will discuss these findings and suggest  
future experimental directions.

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997

AU Hanson, Peter Eric

TI Protein refolding using molecular assistants. 1. mechanistic studies of  
artificial chaperone-mediated refolding of carbonic anhydrase B from the  
**urea**-denatured state. 2. evaluation of contrafacial amphiphiles as  
protein refolding aids

SO (1997) 258 pp. Avail.: UMI, Order No. DA9736974  
From: Diss. Abstr. Int., B 1998, 59(2), 663

AB Unavailable

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997

AU Bardwell, James C. A.

TI PDI and thioredoxin-related proteins - an overview

SO Guidebook to Molecular Chaperones and Protein-Folding Catalysts (  
1997), 311-314. Editor(s): Gething, Mary-Jane. Publisher: Oxford  
University Press, Oxford, UK.  
CODEN: 65RBAT

AB A review with 30 refs. The formation of native disulfide bonds is often a  
vital step in the folding of secreted proteins and in the stabilization of  
their native structures. In contrast, disulfide **redn.** appears  
important for maintaining the structure and controlling the activity of  
cytosolic proteins. Most if not all of the proteins that catalyze protein  
thiol-disulfide exchange belong to the thioredoxin superfamily.

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Thiol-disulfide exchange is one of the few covalent modifications that occur during protein folding. The study of a reaction that is well defined in chem. terms provides a no. of advantages, and as a result the reaction mechanisms of a no. of these catalysts are very well known. The reaction starts with a nucleophilic attack by a reactive SH group which results in the formation of an unstable mixed disulfide. This is followed by a 2nd nucleophilic attack which results in the transfer of the disulfide between the proteins.

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997  
2001  
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1998  
2002  
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2001

IN Pakula, Andrew; Bowie, James

TI A screening method depending on protein folding for identifying potential pharmaceutical ligands for target proteins

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

AB A method for screening chem. compds. (test ligands) for potential pharmaceutical effectiveness is provided. The method identifies possible therapeutic test ligands by placing them in the presence of target proteins and detg. their ability to increase or decrease the ratio of folded target protein to unfolded target protein. The present methods do not require that biochem. function of the target protein be known, nor that any other ligands be previously identified. The methodol. of the invention was used to identify ligands. e.g. inhibiting Hb S polymn.

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1996

AU Jaenicke, Rainer

TI How do proteins acquire their three-dimensional structure and stability?

SO Naturwissenschaften (1996), 83(12), 544-554

CODEN: NATWAY; ISSN: 0028-1042

AB A review with 42 refs. Proteins are multifunctional in the sense that their specific amino acid sequence simultaneously dets. self-organization, function and turnover. Evolution has to compromise between rigidity (stability) and flexibility (function/degrdn.) to the effect that the free energy of stabilization of proteins is the equiv. of only a few weak interactions ( $\Delta G_{stab} = 45 \pm 15$  kJ  $\cdot$  mol $^{-1}$ ). Mol. adaptation of thermophiles, psychrophiles, and other extremophiles is accomplished by extrinsic factors that are not encoded in the amino acid sequence, or by minute local structural changes involving mainly ion pairs and hydrophobic side chains. The acquisition of the native 3-dimensional structure may be described by single- or multiple-pathway folding and assocn., where the fast collapse of the polypeptide chains leads to molten-globule-like states; subsequent shuffling reactions yield structured monomers which, in the case of oligomers, undergo specific assocn. to form the native functional state. The rate-limiting steps (Cys oxidn., Pro isomerization, subunit assembly) are catalyzed or directed by enzymes of chaperones.

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